

Eastwood[®]

DO THE JOB RIGHT.[®]

Item #31797

4-IN-1 BALL JOINT SERVICE KIT INSTRUCTIONS



The **EASTWOOD 4-IN-1 BALL JOINT, U-JOINT SERVICE KIT** includes all the components needed to remove and install most U-Joints, Ball Joints, Brake components, as well as many other automotive based, pressed-in assemblies. This tool is constructed of robust, high-strength steel alloy forgings and will provide years of reliable service.

CONTENTS

- (1) Press Frame - **A**
- (1) Drive Screw with Drive Button - **B**
- (1) Male Stepped Adaptor - **C**
- (1) Female Stepped Adaptor - **D**
- (1) 2" Dia. Receiving Sleeve - **E**
- (1) 2-1/2" Dia. Receiving Sleeve - **F**
- (1) 3" Dia. Receiving Sleeve - **G**
- (1) 3-3/4" Long Cup Adaptor – **H**
- (1) 2-1/2" Long Cup Adapter - **J**
- (1) 7/8" Long Cup Adapter - **K**
- (1) Heavy-Duty, Blow Molded Case



SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

⚠ NOTICE

NOTICE is used to address practices not related to personal injury.



⚠️ READ INSTRUCTIONS

- Thoroughly read and understand these product instructions before using the Tool.
- Keep these product instructions for future reference.



⚠️ WARNING IMPROPER MOTOR VEHICLE REPAIR WORK CAN RESULT IN INJURY OR DEATH!

- Performing automotive repair work can cause injury, death and vehicle accidents. DO NOT attempt to use this tool or begin work without proper training and a thorough understanding of motor vehicle mechanical systems.
- Always consult an authorized manufacturer's service manual or reference materials on the particular vehicle for the proper procedures before using this tool.



⚠️ CAUTION PINCH HAZARD!

- Keep hands and fingers away from moving components.



⚠️ CAUTION FALL HAZARD!

- Parts may suddenly release while being removed. Failure to ensure proper footing can quickly result in a fall which could inflict serious personal injury or property damage.



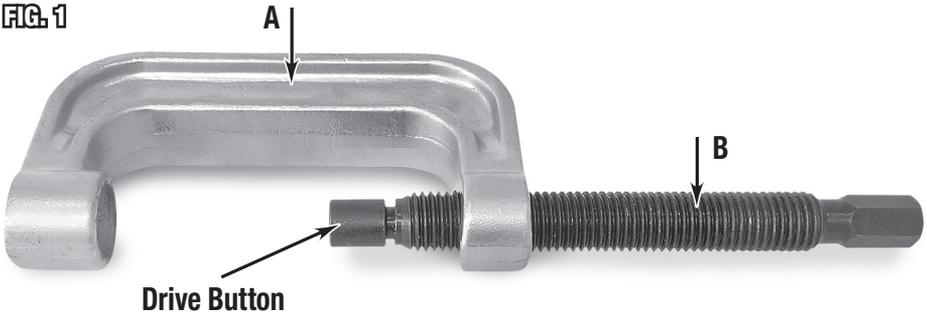
⚠️ CAUTION EYE INJURY HAZARD!

- Impacting metal components of tool may release chips. Wear ANSI approved eye protection while using.
- DO NOT use impact wrenches with this tool.

PRESS FRAME AND DRIVE SCREW ASSEMBLY

- Remove the Press Frame [A] and the Drive Screw [B] from the case.
- Insert the Drive Button end of the Drive Screw into the outer side of the threaded bore in the Press Frame and thread it inward (**FIG 1**).

FIG. 1



SET-UP

This tool is designed with interlocking and interchangeable attachments intended for stacking together allowing the user to create a configuration that best fits the application resulting in many possible combinations (**FIG 2**).

Note that the Stepped Adaptors [C] & [D] are specifically machined with concentric steps and chamfered bores that will interlock with the Receiving Sleeves [E], [F] & [G] (**FIG 3**) as well as the Cup Adaptors [H], [J] & [K] (**FIG 4**). In addition, the Stepped Adaptors [C] & [D] are keyed to mate with the bore of the Press Frame (**FIG 5**) and the Drive Button (**FIG 6**).

FIG. 2

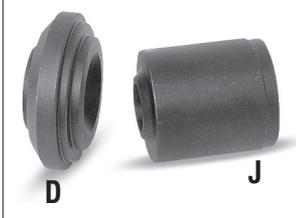


FIG. 3

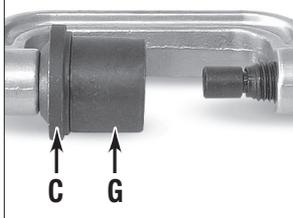


FIG. 4



FIG. 5

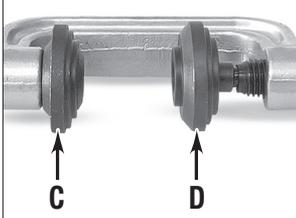
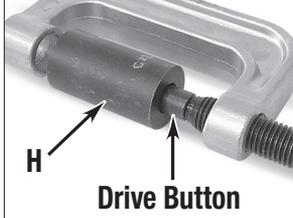


FIG. 6



U-JOINT REMOVAL

▲ NOTICE

The following procedure is only a guide and provides suggested usage of the 4-in-1 Ball Joint, U-Joint Service Kit. Due to many variables in U-joint configurations, it is impossible to provide complete detailed instructions for every application. Always consult an authorized manufacturer's service manual or reference materials on the particular vehicle for the proper procedures before using this tool.

- Remove inside or outside lock rings from the U-Joint yoke per vehicle manufacturer's instructions.
- Place the Male Stepped Adapter **[C]** in the Receptacle End of the Press Frame **[A]** and select the Receiving Sleeve **[E, F, OR G]** that best fits the subject U-Joint.
- Place and center the Drive Button of the Drive Screw over the bearing cap of the U-Joint. Cup Adapters **[H, J, K]** may be used for larger diameter bearing caps.
- Support the Press Frame **[A]** and turn the Drive Screw **[B]** inward to begin exerting pressure on the bearing cap.
- Continue to tighten Drive Screw **[B]** to push the bearing cap of the U-Joint out of the U-Joint yoke.

▲ CAUTION

Constantly observe the U-joint yoke as you go to avoid any distortion or breakage of the U-Joint yoke.

- After the 1st bearing cap is removed, re-position the Press Frame **[A]** and turn the Drive Screw **[B]** to drive out the remaining bearing cap.
- Follow previous steps as described.

U-JOINT INSTALLATION

▲ NOTICE

The following procedure is only a guide and provides suggested usage of the 4-in-1 Ball Joint, U-Joint Service Kit. Due to many variables in U-joint configurations, it is impossible to provide complete detailed instructions for every application. Always consult an authorized manufacturer's service manual or reference materials on the particular vehicle for the proper procedures before using this tool.

- Clean the U-Joint yoke to remove all dirt, grit and old grease.
- Place the new U-joint bearing cap into the bore of the yoke and using the Press with the Drive Screw Button centered over the bearing cap, begin tightening the Drive Screw **[B]**.
- Continue to tighten Drive Screw **[B]** to push the bearing cap of the U-Joint into position within the U-Joint yoke until it is seated.

▲ CAUTION

Constantly observe the U-joint yoke as you go to avoid any distortion or breakage of the U-Joint yoke.

- After the 1st bearing cap is installed, re-position the Press Frame **[A]** to install the remaining bearing cap.
- Follow previous steps as described.

BALL JOINT REMOVAL

▲ NOTICE

The following procedure is only a guide and provides suggested usage of the 4-in-1 Ball Joint, U-Joint Service Kit. Due to the nearly unlimited number ball joint and control arm designs, it is impossible to provide complete detailed instructions for every application. Always consult an authorized manufacturer's service manual or reference materials on the particular vehicle for the proper procedures before using this tool.

- Place the Female Stepped Adapter **[D]** over the Drive Screw Button **[B]** and select the Receiving Sleeve **[E, F, OR G]** that best fits the subject Ball Joint.
- Place the Male Stepped Adapter **[C]** in the Receptacle end of the Press Frame.
- Turn the Drive Screw **[B]** inward to begin exerting pressure on the vehicle control arm.
- Continue to tighten Drive Screw **[B]** while constantly checking that all the Press Kit components remain in alignment until the ball joint is pushed free of the control arm.

▲ CAUTION

If any components begin to stray out of alignment, stop immediately, loosen Drive Screw, realign components, then resume work.

BALL JOINT INSTALLATION

NOTICE

The following procedure is only a guide and provides suggested usage of the 4-in-1 Ball Joint, U-Joint Service Kit. Due to the nearly unlimited number ball joint and control arm designs, it is impossible to provide complete detailed instructions for every application. Always consult an authorized manufacturer's service manual or reference materials on the particular vehicle for the proper procedures before using this tool.

- Clean the control arm to remove all dirt, grit and old grease from ball joint bore.
- Place the new ball joint into the bore of the control arm making sure it is perfectly straight and aligned with the bore.
- Insert the Male Step Adapter **[C]** into the receptacle bore of the Press Frame **[A]**.
- Place the Press with the Male Step Adapter **[C]** and appropriate Receiving Sleeve **[E, F, OR G]** Over the top of the control arm.
- Place the Female Step Adapter **[D]** over the Drive Screw Button **[B]** and under the new ball joint.
- Turn the Drive Screw **[B]** inward to begin exerting pressure on the ball joint.
- Continue to tighten Drive Screw **[B]** while constantly checking that all the Press Kit components remain in alignment until the ball joint is seated fully in the control arm.

CAUTION

If any components begin to stray out of alignment, stop immediately, loosen Drive Screw, realign components then resume work.

ADDITIONAL ITEMS

- #31902 Eastwood 1/2" Drive, 1000 ft/lb, Composite Impact Air Wrench
- #31504 Eastwood 6 Ton Jack Stands, Set of 2
- #31591 Eastwood 8 Piece Axle Nut Socket Set
- #31338 1/2" Micrometer Torque Wrench, 30-250 ft/lbs.

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: tech@eastwood.com

PDF version of this manual is available at eastwood.com

The Eastwood Company 263 Shoemaker Road, Pottstown, PA 19464, USA

800.343.9353 eastwood.com